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TC 1700

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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1764

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	09/590,049
		Filing Date	06/08/2000
		First Named Inventor	Kenneth J. Southwick
		Group Art Unit	1764
		Examiner Name	Basia Anna Ridley
Total Number of Pages in This Submission		Attorney Docket Number	106747.118

## ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): - Postcard
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		
1. Form PTO-1449 (one page)		

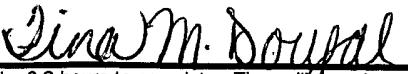
## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Daniel P. Gaudet
Signature	
Date	Oct 7, 2003

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:

Oct. 7, 2003

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Signature		Date
	Oct. 7, 2003	

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OCT 09 2003

# FEE TRANSMITTAL

## for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ 180.00)

**Complete if Known**

Application Number	09/590,049
Filing Date	06/08/2000
First Name Inventor	Southwick
Examiner Name	Basia Anna Ridley
Art Unit	1764
Attorney Docket No.	106747.118 DV US GN

**METHOD OF PAYMENT (check all that apply)**

Check  Credit card  Money Order  Other  None

Deposit Account:

Deposit Account Number	08-0219
Deposit Account Name	Hale and Dorr LLP

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) or any underpayment of fee(s)  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

**FEE CALCULATION**

**1. BASIC FILING FEE**

Large Entity	Small Entity	Fee Code (\$)	Fee	Fee Code (\$)	Fee Description	Fee Paid
1001	770	2001	385		Utility filing fee	
1002	340	2002	170		Design filing fee	
1003	530	2003	265		Plant filing fee	
1004	770	2004	385		Reissue filing fee	
1005	160	2005	80		Provisional filing fee	
				<b>SUBTOTAL (1)</b>	<b>(\$ 0.00)</b>	

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X	=
			- 3** =	X	=
			0		= 0

Large Entity	Small Entity	Fee Code (\$)	Fee	Fee Code (\$)	Fee Description	Fee Paid
1202	18	2202	9		Claims in excess of 20	
1201	86	2201	43		Independent claims in excess of 3	
1203	290	2203	145		Multiple dependent claim, if not paid	
1204	86	2204	43		** Reissue independent claims over original patent	
1205	18	2205	9		** Reissue claims in excess of 20 and over original patent	
				<b>SUBTOTAL (2)</b>	<b>(\$ 0.00)</b>	

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)**

**3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Code (\$)	Fee	Fee Code (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet
1053	130	1053	130	Non-English specification
1812	2,520	1812	2,520	For filing a request for ex parte reexamination
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action
1251	110	2251	55	Extension for reply within first month
1252	420	2252	210	Extension for reply within second month
1253	950	2253	475	Extension for reply within third month
1254	1,480	2254	740	Extension for reply within fourth month
1255	2,010	2255	1,005	Extension for reply within fifth month
1401	330	2401	165	Notice of Appeal
1402	330	2402	165	Filing a brief in support of an appeal
1403	290	2403	145	Request for oral hearing
1451	1,510	1451	1,510	Petition to institute a public use proceeding
1452	110	2452	55	Petition to revive - unavoidable
1453	1,330	2453	665	Petition to revive - unintentional
1501	1,330	2501	665	Utility issue fee (or reissue)
1502	480	2502	240	Design issue fee
1503	640	2503	320	Plant issue fee
1460	130	1460	130	Petitions to the Commissioner
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)
1806	180	1806	180	Submission of Information Disclosure Stmt
8021	40	8021	40	Recording each patent assignment per property (times number of properties)
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))
1801	770	2801	385	Request for Continued Examination (RCE)
1802	900	1802	900	Request for expedited examination of a design application

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ 180.00)

**SUBMITTED BY**

(Complete if applicable)

Name (Print/Type)	Daniel P. Gaudet	Registration No. (Attorney/Agent)	48,584	Telephone	617-526-6025
Signature	<i>Daniel P. Gaudet</i>			Date	Oct 7, 2003

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS: SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

Application of: Kenneth J. Southwick

OCT 17 2003

Application No.: 09/590,049

TC 1700

Filed: June 8, 2000

Group Art Unit: 1764

For: Collider Chamber Apparatus and  
Method of Use of Same

Examiner: Ridley, Basia Anna

Attorney Docket No.: 106747-118 DV US CN1

CERTIFICATE OF MAILING (37 C.F.R. § 1.8 a)

I hereby certify that this correspondence is being deposited with the United States Postal Service under 37 CFR 1.8a and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 7<sup>th</sup> day of October, 2003.

By: Tina M. Dougal  
Tina M. Dougal

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97-98, and M.P.E.P. §609, Applicant hereby encloses Form PTO-1449, which includes publications which have previously been cited in a prior patent application Serial No. 09/354,413 filed July 15, 1999, now issued U.S. Patent No. 6,110,432, and U.S. Serial No. 09/090,121 filed June 4, 1998, now abandoned, from which the above application claims priority under 35 U.S.C. §120. Therefore, pursuant to 37 C.F.R. § 1.98(d), no further copies of the previously cited art is enclosed.

It is respectfully requested that the information above be expressly considered and that the publications be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

10/15/2003 HVUONG1 0000003 080219 09590049

01 FC:1806 180.00 DA

As this paper is being filed after the issuance of a first Office Action on the merits, the undersigned hereby authorizes the required fee of \$180 to be deducted from Deposit Account No. 08-0219.

In the event a fee is due, the Commissioner is authorized to charge any fee deficiency or credit any overpayment to Deposit Account No. 08-0219.

Respectfully submitted,

Dated: October 7, 2003

Daniel P. Gaudet  
Daniel P. Gaudet  
Registration No. 48,584  
Attorney for Applicant

Hale and Dorr LLP  
60 State Street  
Boston, Massachusetts 02109  
(617) 526-5138 (telephone)  
(617) 526-5000 (facsimile)

OCT 09 2003

Sheet 1 of 1

Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
106747.118 DV US  
CN1Application No.  
09/590,049

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Information Disclosure Statement  
by Applicant  
(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant  
Kenneth J. Southwick

OCT 17 2003

Filing Date  
June 8, 2000Group Art Unit  
1764

TC 1700

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	2,965,362	12/1960	Flottman et al.	259	8	
	2,969,960	1/1961	Gurley, Jr.	259	7	
	3,285,702	11/1966	Lamb et al.	23	252	
	3,667,234	6/1972	De Lizasoain	61	1 R	
	3,922,871	12/1975	Bolest	62	5	
	4,047,068	9/1977	Ress et al.	313	359	
	4,098,582	7/1978	Takeda	55	92	
	4,405,658	9/1983	Young	427	63	
	4,685,443	8/1987	McMurtry	126	247	
	4,685,534	8/1987	Burstein et al.	181	251	
	4,702,846	10/1987	Ryynanen	210	788	
	4,840,645	6/1989	Woodworth et al.	55	1	
	4,913,556	4/1990	Schroter et al.	366	305	
	5,053,127	10/1991	Schoendorfer et al.	210	196	
	5088,831	2/1992	Reinhall	366	171	
	5,141,328	8/1992	Dilley	366	305	
	5,534,118	7/1996	McCutchen	202	205	
	5,538,630	7/1996	Burns	210	198.1	
	5,554,301	9/1996	Rippetoe et al.	210	748	
	5,571,975	11/1996	Smith, Jr. et al.	73	862.16	
	5,676,801	10/1997	El-Sayed	202	182	
	5,860,605	1/1999	Van Der Zanden	24	27	

Examiner Initial	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
						Yes	No

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)